

Applicant : Kimihiro Yamashita
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Amendments to the Specification:

Please replace paragraph beginning at page 5 line 13 with the following amended paragraph:

The present invention provides a method for controlling organisms which comprises growing, decreasing, activating or inactivating cells, bacteria, viruses or fungi at the N-surface or the P-surface of a ceramic which is formed by treating the ceramic by polarization[[,]] as ~~described in Claim 1.~~

Please replace paragraph beginning at page 5 line 18 with the following amended paragraph:

The present invention also provides the method for controlling organisms ~~described in Claim 1,~~ wherein the ceramic is a material or a combination of materials selected from hydroxyapatite ceramics, barium titanate ceramics, strontium hydroxyapatite ceramics, hydroxyapatite ceramics containing calcium or strontium as solid solutions, lithium niobate ceramics, sodium niobate ceramics, potassium niobate ceramics, glasses and crystallized glasses which contain calcium phosphate, stabilized and partially stabilized zirconia ceramics, ion conductive alumina (so-called β -alumina) ceramics, and piezoelectric ceramics containing lead.

Please replace paragraph beginning on page 6, line 3, with the following amended paragraph:

The present invention also provides the method for controlling organisms ~~described in any of Claims 1 and 2~~[[,]] wherein the ceramic is powder, fiber or a coating film.

Please replace paragraph beginning on page 6, line 6, with the following amended paragraph:

The present invention provides a material for controlling organisms which is a ceramic treated by polarization so that cells, bacteria, viruses or fungi are grown, decreased, activated

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or inactivated at the N-surface or the P-surfaces of the ceramic which is formed by the treatment[[,]] ~~as described in Claim 4.~~

Please replace paragraph beginning on page 6, line 11, with the following amended paragraph:

The present invention also provides the material for controlling organisms ~~described in Claim 4~~[[,]] wherein the ceramic is a material or a combination of materials selected from hydroxyapatite ceramics, barium titanate ceramics, strontium hydroxyapatite ceramics, hydroxyapatite ceramics containing calcium or strontium as solid solutions, lithium niobate ceramics, sodium niobate ceramics, potassium niobate ceramics, glasses and crystallized glasses which contain calcium phosphate, stabilized and partially stabilized zirconia ceramics, ion conductive alumina (so-called β -alumina) ceramics, and piezoelectric ceramics containing lead.

Please replace paragraph beginning on page 6, line 21, with the following amended paragraph:

The present invention also provides the material for controlling organisms ~~described in any of Claims 4 and 5~~[[,]] wherein the ceramic is powder, fiber or a coating film.

Please replace paragraph beginning on page 9, line 6, with the following amended paragraph:

The present invention provides the method for selective adsorption of proteins which comprises selectively adsorbing drugs, nutrients and proteins by utilizing difference in adsorption properties among the N-surface, the O-surface (a neutral surface placed between the N-surface and the P-surface) and the P-surface of a ceramic which are formed by treating the ceramic by polarization[[,]] ~~as described in Claim 7.~~

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Please replace paragraph beginning on page 9, line 12, with the following amended paragraph:

The present invention also provides the material for selective adsorption of proteins which is a ceramic treated by polarization so that drugs, nutrients and proteins are selectively adsorbed due to difference in adsorption properties among the N-surface, the O-surface and the P-surface of the ceramic which are formed by treating the ceramic[[,]] ~~as described in Claim 8.~~

Please replace paragraph beginning on page 9, line 18, with the following amended paragraph:

The present invention also provides the material for selective adsorption for proteins ~~described in Claim 8~~[[,]] wherein the ceramic is a material or a combination of materials selected from hydroxyapatite ceramics, barium titanate ceramics, strontium hydroxyapatite ceramics, hydroxyapatite ceramics containing calcium or strontium as solid solutions, lithium niobate ceramics, sodium niobate ceramics, potassium niobate ceramics, glasses and crystallized glasses which contain calcium phosphate, stabilized and partially stabilized zirconia ceramics, ion conductive alumina (so-called β -alumina) ceramics, and piezoelectric ceramics containing lead.

Please replace paragraph beginning on page 10, line 23, with the following amended paragraph:

The present invention also provides a cement material for filling bones and dental applications which comprises powder or fiber of a ceramic treated by polarization[[,]] ~~as described in Claim 11.~~

Please replace paragraph beginning on page 11, line 7, with the following amended paragraph:

The present invention also provides the cement material ~~described in Claim 11~~[[,]] which comprises needle-shaped powder or fiber of a ceramic treated by polarization.

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Please replace paragraph beginning on page 12, line 7, with the following amended paragraph:

The present invention also provides a cement material ~~described in any of Claims 14 and 15~~[[,]] wherein the ceramic is a material or a combination of materials selected from hydroxyapatite ceramics, barium titanate ceramics, strontium hydroxyapatite ceramics, hydroxyapatite ceramics containing calcium or strontium as solid solutions, lithium niobate ceramics, sodium niobate ceramics, potassium niobate ceramics, glasses and crystallized glasses which contain calcium phosphate, stabilized and partially stabilized zirconia ceramics, ion conductive alumina (so-called β -alumina) ceramics, and piezoelectric ceramics containing lead.

Please replace paragraph beginning on page 13, line 11, with the following amended paragraph:

The present invention also provides the biomaterial ~~described in any of Claims 14 and 15~~[[,]] wherein the ceramic is a material or a combination of materials selected from hydroxyapatite ceramics, barium titanate ceramics, strontium hydroxyapatite ceramics, hydroxyapatite ceramics containing calcium or strontium as solid solutions, lithium niobate ceramics, sodium niobate ceramics, potassium niobate ceramics, glasses and crystallized glasses which contain calcium phosphate, stabilized and partially stabilized zirconia ceramics, ion conductive alumina (so-called β -alumina) ceramics, and piezoelectric ceramics containing lead.